



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

(801) 538-5340 telephone

(801) 359-3940 fax

(801) 538-7223 TTY

www.nr.utah.gov

Michael O. Leavitt  
Governor

Robert L. Morgan  
Executive Director

Lowell P. Braxton  
Division Director

June 3, 2003

CERTIFIED RETURN RECEIPT  
7099 3400 0016 8896 2215

Garth Kuhnhein  
Utah Marblehead LLC  
9043 Highway 154  
Butler, Kentucky 41006

Re: Five-Year Review of Reclamation Surety Estimate, Utah Marblehead LLC, Utah Marblehead Quarry, M/045/003, Tooele County, Utah

Dear Mr. Kuhnhein:

Thank you for responding to our request for information regarding the five-year review status of your Utah Marblehead Quarry, located in Tooele County, Utah. At your direction the Division reviewed the 1998 Mine Reclamation Plan (MRP), which was originally submitted March 23, 1998 and approved by the Division on July 9, 1998.

The 1998 MRP was approved subsequent to the Division's July 9, 1998 approval of Utah Marblehead Quarry's escalated surety amount. As stated in that approval, any changes to the mining and reclamation plan may require a modification/adjustment of the reclamation surety cost estimate. A decision was made at the time, that because a new surety had just recently been approved, a detailed review of the MRP would be incorporated into the next 5-year surety (2002) escalation review.

The review of the 1998 MRP indicates that significant changes to the original plan have been made, which will result in a significant adjustment to the amount of surety required to reclaim this site. The original surety was based upon the following: (shown in regular type – the 1998 MRP changes are shown in bold type).

1. No product stockpiles would exist on the site due to the close proximity of the plant. *At the present time a stockpile of limestone material does exist at the quarry.*

**Cross-sections of the quarry, from maps generated for the MRP, indicate a mass-balance of 182,720 cubic yards of material to be moved during final reclamation.**

2. Reclamation of the haulroad was not a part of the original surety estimate; a decision was to be made at closure, by the BLM, on the need to allow the road to remain.

**The BLM has indicated that because the haulroad does not serve any purpose other than mining related usage, this feature should be reclaimed.**

Page 2  
Garth Kuhnhein  
M/045/003  
June 3, 2003

3. No culverts would be placed under the haulroad.  
**Reclamation of the haulroad was added, which includes the removal of six culverts.**
4. The permitted disturbance for the site totaled 49 acres.  
**The total disturbance at the site now totals 62.03 acres.**
- 5: **Gravel and roadbase material would be stripped from the haulroad and placed in the low areas and borrow ditches of the road prior to final ripping and seeding.**

The Division has recalculated a reclamation cost estimate based on the changes outlined in the 1998 Mine Reclamation Plan. Because of the amount of material which will need to be moved to level the quarry floor and the reclamation of the haulroad, the surety estimate for the site has increased significantly. A draft copy of this surety estimate is enclosed for your review and comment. Please review this draft surety estimate and return your comments to the Division within 30 days, or by July 3, 2003.

If you have any questions concerning this letter or the revised reclamation estimate, please contact Doug Jensen at (801) 538-5382.

Sincerely,



D. Wayne Hedberg  
Permit Supervisor  
Minerals Regulatory Program

.jb  
Attachment: surety estimate update  
cc: Doug Jensen, DOGM  
Cheryl Martinez, BLM. (UTU-62826)  
O:\M045-Tooele\M0450003-UtahMarblehead\final\5-yrescal06032003.doc

RECLAMATION SURETY ESTIMATE					
Utah Marblehead Lime Company		last revision		05/20/03	
Marblehead Lime Quarry		filename M045-003.xls		page "estimate D8"	
DOGM file Number M/045/003		Tooele County			
Prepared by Utah State Division of Oil, Gas & Mining					
<b>This bond has been calculated utilizing the Mine Reclamation Plan submitted to the Division March 25, 1998 - This plan provided additional reclamation details for the site</b>					
-A variance to leave highwalls at the quarry was granted by the Division for this site					
-The permit includes 49.29 acres of quarry & 12.74 acres of haulroad, total disturbance of 62.03 acres					
-The reclamation surety presently in place was calculated on a total disturbance of 49 acres					
-Reclamation of the haulroad has been requested by the BLM					
- The floor of the quarry is to be reclaimed.					
<b>Note: actual unit costs may vary according to site conditions</b> last unit cost update 7-Sep-02					
<b>-Amount of disturbed area which will receive reclamation treatments = 57 acres</b>					<b>acres</b>
<b>-Estimated total disturbed area for this mine =</b>					<b>62.03 acres</b>
<u>Activity</u>	<u>Quantity</u>	<u>Units</u>	<u>\$/unit</u>	<u>\$</u>	<u>Note</u>
Spreading material over quarry floor (dozer)	121000	CY	0.5	60500	(8)
Quarry floor reclamation (FE loader & truck)	60900	CY	2.6	158340	(9)
Ripping quarry floor material prior to seeding	44	acre	246	10824	(9)
Surface drainage restoration or construction	810	LF	0.16	130	(10)
<b>Haulroad Reclamation</b>					
Removal of gravel & roadbase from haulfoad					
	Dozer	2.3 acre	246	566	(9)
	FE loader & truck	500 CY	2.6	1300	(14)
	Removal of 6 culverts	6 ea	250	1500	(00)
	Ripping of road area prior to seeding	2.3 acres	246	566	(9)
Fertilizing (100 lb/acre diammonium phosphate)	57	acre	90	5130	(00)
Drill seeding	57	acre	205	11685	(00)
Hydroseeding	0	acre	800	0	(00)
General site cleanup & trash removal	15	acre	50	750	(00)
Equipment mobilization	3	equip	1000	3000	(00)
Reclamation supervision - 10% of reclamation estimate				27970	(15)
	Subtotal			282260	
10% Contingency				28226	
	Subtotal			310486	
Escalate for 5 years at 2.82% per year				46318	
	Total			356805	
Rounded surety amount in year 2008 \$				356800	
Average cost per disturber acre =				5752	
(9)	Means 2000 & Blue Book 3Q/00 Cat D8N, U, mtl 2550 lb/CY, 100 ft push				
(9)	Means 2000 & Blue Book 3Q/00 Cat D8N, U, multi shank rippers, speed 1.0 mph				
(10)	Contractor's actual costs, 1991 at E/053/012 escalated to 2000-\$, Cat 225 Excavator, 20 ft wide road				
	Means 2000 & Blue Book 3Q/00 Cat D8N, U, mtl 2550 lb/CY, 50 ft push - used avg vol 0.5CY/LF-berm				
(14)	Means 2000 & Blue Book 3Q/00 Cat 627F P-P, mtl 2550 lb/CY, 2,000 ft haul one-way, grade +/- 4%,				
	Means 2000 02320-200-2030 earthwork, hauling excavated or borrow material, off highway hauler				
	22 CY, 1 mile round trip, no loading included				
(00)	DOGM general estimate - fertilizing				
(00)	DOGM general estimate - drill seeding				
	DOGM general estimate - site cleanup & trash removal				
	DOGM general estimate - equipment mobilization				
(15)	Means 2000, 01300-700-0180, project manager, minimum \$1,930/wk				